

## APPENDIX OF CLAIMS AFTER AMENDMENT

Sub C1  
1. A technique for bilevel printing of an image or figure comprising:  
providing an inkjet printhead having a nozzle pitch of a first resolution;  
creating a higher resolution bitmap which resolution is greater than the first resolution;  
eliminating alternate pixel rows from the higher resolution bitmap thereby converting the  
higher resolution bitmap for printing onto an asymmetrical pixel grid having the first resolution  
in one axis and the higher resolution in a second axis, wherein said converting includes applying  
a depletion pattern only in the axis of higher resolution.

Sub E2  
2. The technique of claim 1 wherein said converting includes applying a narrowing  
process only in the axis of higher resolution while preserving any vertical edge pixels of the  
figure.

3. The technique of claim 1 wherein said converting includes applying a logical  
operation on certain rows of the higher resolution bitmap to determine whether or not to preserve  
any "on" pixels which are in the eliminated alternate pixel rows as a result of printing onto the  
asymmetrical pixel grid.

4. The technique of claim 3 wherein said applying includes applying a logical operation  
on one of the eliminated alternate pixel rows and its two adjacent rows of the higher resolution  
bitmap.

5. The technique of claim 1 wherein said first resolution is approximately 600 dpi.

6. The technique of claim 5 wherein said asymmetrical pixel grid is approximately 600  
dpi in the media advance axis and approximately 1200 dpi in the carriage scan axis.

Q2  
7. (New) The technique of claim 1 wherein said first resolution in the one axis is

approximately one half of said higher resolution in the second axis.

ba 8. (New) The technique of claim 7 wherein the second axis of said higher resolution extends in a scanning axis direction of the inkjet printhead..

9. (New) The technique of claim 1 wherein said higher resolution bitmap is a symmetrical resolution bitmap.

10. (New) The technique of claim 1 wherein said higher resolution bitmap has a resolution which is a multiple of said first resolution.

11. (New) The technique of claim 1 wherein said higher resolution bitmap is a monochrome bitmap.

12. (New) The technique of claim 4 wherein the logical operation is applied to preserve and transfer an "on" pixel from an eliminated row to an adjacent non-eliminated row in the event there is a predetermined number of "off" pixels on the two adjacent rows of said eliminated row.

13. (New) The technique of claim 12 wherein the logical operation is applied to an individual pixel on an eliminated row and to individual pixels on two vertically adjacent rows.

14. (New) The technique of claim 12 wherein the logical operation is applied to an individual pixel on an eliminated row and to vertically adjacent individual pixels on both an upper and lower vertically adjacent row, respectively.

Sub 12 ~~15. (New) A method of achieving high quality printing from one or more printheads having a given nozzle pitch resolution, comprising:  
creating a first symmetrical bitmap having a resolution which is a multiple of the given nozzle pitch resolution;  
transforming the first bitmap by eliminating certain pixel rows in order to create an~~

*Sub 100  
C2  
(Cont'd)*

~~asymmetrical bitmap for printing on a pixel grid having a higher resolution in a carriage scan axis and a lower resolution in a media advance axis; and~~

~~performing a logical operation on an eliminated pixel row and two of its adjacent pixel rows in order to preserve an "on" pixel from the eliminated pixel row and transfer it to an "off" pixel in one of said two adjacent pixel rows.~~

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